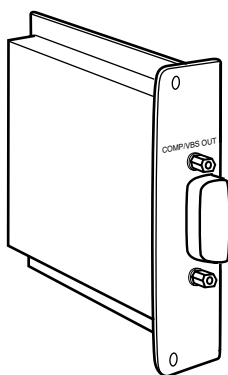




Analog output card

KA-F5604U

INSTRUCTIONS



This instructions book is made from 100% recycled paper.

Thank you for purchasing this JVC product. Before operating this unit, please read the instructions carefully to ensure the best possible performance.

For Customer Use:

Enter below the Serial No. which is located on the body. Retain this information for future reference.

Model No. **KA-F5604U**

Serial No. _____

IMPORTANT SAFEGUARDS

1. Read all of these instructions.
2. Save these instructions for later use.
3. All warnings on the product and in the operating instructions should be adhered to.
4. Unplug this appliance system from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
5. Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
6. Do not use this appliance near water – for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

7. Do not place this appliance on an unstable cart, stand, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance.

Use only with a cart or stand recommended by the manufacturer, or sold with the appliance.

Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING
(symbol provided by RETAC)



8. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. This appliance should never be placed near or over a radiator or heat register. This appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
9. This appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company. For appliance designed to operate from battery power, refer to the operating instructions.
10. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
11. Do not allow anything to rest on the power cord. Do not locate this appliance where the cord will be abused by persons walking on it.
12. Follow all warnings and instructions marked on the appliance.
13. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
14. Never push objects of any kind into this appliance through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
15. Do not attempt to service this appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. Unplug this appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the appliance.
 - c. If the appliance has been exposed to rain or water.
 - d. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation.
 - e. If the appliance has been dropped or the cabinet has been damaged.
 - f. When the appliance exhibits a distinct change in performance – this indicates a need for service.
17. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
18. Upon completion of any service or repairs to this appliance, ask the service technician to perform routine safety checks to determine that the appliance is in safe operating condition.

SAFETY PRECAUTIONS (FOR USA AND CANADA)



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



ATTENTION

RISQUE D'ELECTROCUTION
NE PAS OUVRIR



ATTENTION: POUR EVITER TOUT RISQUE D'ELECTROCUTION
NE PAS OUVRIR LE BOITER.
AUCUNE PIECE INTERIEURE N'EST
A REGLER PAR L'UTILISATEUR.
SE REFERER A UN AGENT QUALIFIE EN CAS DE PROBLEME.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

**TO REDUCE THE RISK OF FIRE OR
ELECTRIC SHOCK, DO NOT EXPOSE THIS
APPLIANCE TO RAIN OR MOISTURE.**

This unit should be used with 12 V DC only.

CAUTION:

**To prevent electric shocks and fire hazards, DO
NOT use any other power source.**

NOTE:

The rating plate (serial number plate) is on this unit.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

CHANGES OR MODIFICATIONS NOT APPROVED
BY JVC COULD VOID USER'S AUTHORITY TO
OPERATE THE EQUIPMENT.

THIS DEVICE COMPLIES WITH PART 15 OF THE
FCC RULES. OPERATION IS SUBJECT TO THE
FOLLOWING TWO CONDITIONS: (1) THIS DEVICE
MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFER-
ENCE RECEIVED, INCLUDING INTERFERENCE
THAT MAY CAUSE UNDESIRE OPERATION.



Le symbole de l'éclair à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'une "tension dangereuse" non isolée dans le boîtier du produit. Cette tension est suffisante pour provoquer l'électrocution de personnes.



Le point d'exclamation à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'opérations d'entretien importantes au sujet desquelles des renseignements se trouvent dans le manuel d'instructions.

*Ces symboles ne sont utilisés qu'aux Etats-Unis.

AVERTISSEMENT:

**POUR EVITER LES RISQUES D'INCENDIE
OU D'ELECTROCUTION, NE PAS
EXPOSER L'APPAREIL A L'HUMIDITE OU
A LA PLUIE.**

Cet appareil ne doit être utilisé sur 12 V en
courant continu.

ATTENTION:

**Afin d'éviter tout resque d'incendie ou
d'électrocution, ne pas utiliser d'autres
sources d'alimentation électrique.**

REMARQUE:

La plaque d'identification (numéro de série) se
trouve sur la partie inférieure de l'appareil.

INFORMATION (FOR CANADA) RENSEIGNEMENT (POUR CANADA)

This Class B digital apparatus complies with
Canadian ICES-003.

Cet appareil numérique de la Class B est
conforme à la norme NMB-003 du Canada.

SAFETY PRECAUTIONS (FOR EUROPE)

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This unit should be used with 12 V DC only.

CAUTION:

To prevent electric shocks and fire hazards, do NOT use any other power source.

Note:

The rating plate (serial number plate) is on this unit.

CAUTION

To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

This equipment is in conformity with the provisions and protection requirements of the corresponding European Directives. This equipment is designed for professional video appliances and can be used in the following environments:

- Residential (including both of the location type class 1 and 2 found in IEC 1000-2-5)
- Commercial and light industrial (including, for example, theatres)
- Urban outdoors (based on the definition of location type class 6 in IEC 1000-2-5)

This apparatus is designed for rack mounting or is used close to other apparatus.

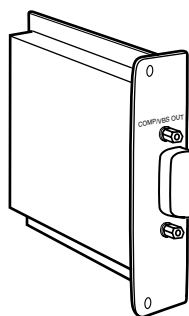
In order to keep the best performance and furthermore for electromagnetic compatibility we recommend to use cables not exceeding the following lengths:

Port	Cable	Length
COMP/ VBS OUT	Shielded Twist Pair Cable	less than 2 m

Caution:

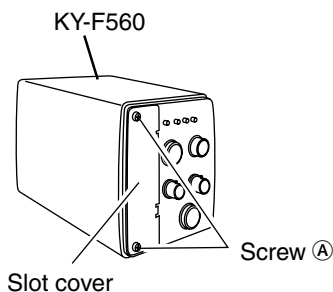
- Where there are strong electromagnetic waves or magnetism, for example near a radio or TV transmitter, transformer, motor, etc., the picture may be disturbed.
In such a case, please keep the apparatus away from the sources of the disturbance.

Thank you for purchasing the KA-F5604U Analog output card.



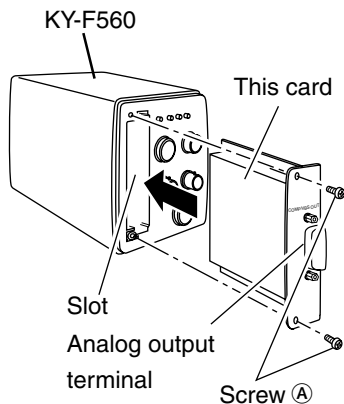
- By inserting this card into JVC's color video camera KY-F560, either composite video signal, component video signal(Y/Cb/Cr), RGB signal or Y/C signal is output.

Mounting this card to KY-F560 Camera



KY-F560 power must be switched off before mounting the card.

1. Remove two screws (A) from the rear of the camera and take out the slot cover.



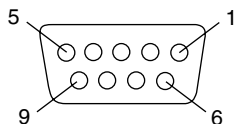
2. Insert this Analog output card into the slot at the rear of the camera and secure it by screwing back the two screws (A) which were taken out earlier in the above mentioned step 1..

Notes

Ensure that the Analog output card is inserted all the way in.

Description of Terminals

Analog Output Terminal (D-sub 9PIN, Female)



Notes

- Cannot be connected to computer monitor.
- The output signal could be selected using the “OUTPUT” item under the “SYSTEM” menu screen on the KY-F560. (page 7)

Pin No.	RGB output	Y/C output	Y/Cb/Cr output
1	GND	GND	GND
2	GND	GND	GND
3	R OUT	-	Cr OUT
4	G OUT	Y OUT	Y OUT
5	B OUT	C OUT	Cb OUT
6	Composite video OUT	Composite video OUT	Composite video OUT
7	-	-	-
8	GND	GND	GND
9	GND	GND	GND

Connection

[Connection example]

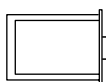
When connecting

- Perform this when the devices are off.
- Read the instruction manual of the unit before performing it.

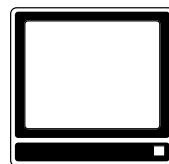
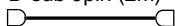
Color video camera
KY-F560



Analog output card
KA-F5604U



D-sub 9pin (2m)



Monitor

Notes

- Please make sure to the cable with outer shield when connecting the D-sub cable.
- The screw section for mounting D-sub cable of this unit is mm specification.
When using inch type D-sub cable, change to the supplied inch type screws.

Menu Screen

When KY-F560 camera is mounted on this unit, new menu screens and menu items are appeared on the screen.

The additional new menu screens and menu items will be explained here.

Please refer to KY-F560 instruction manual for details on menu screen setting.

“SYSTEM” Menu Screen

The following additional items are added to the “SYSTEM” menu screen.

The settings in bold are factory settings.

Item	Function/Variables
OUTPUT	<p>From Analog output terminal, besides the composite signal, another type of output video signal could be output. The additional output signal is selected here.</p> <p>“Y/Cb/Cr” : Y/Cb/Cr component signal will be output.</p> <p>“RGB” : RGB component signal will be output will embedded sync signal.</p> <p>“Y/C” : YC separate signal will be output.</p>

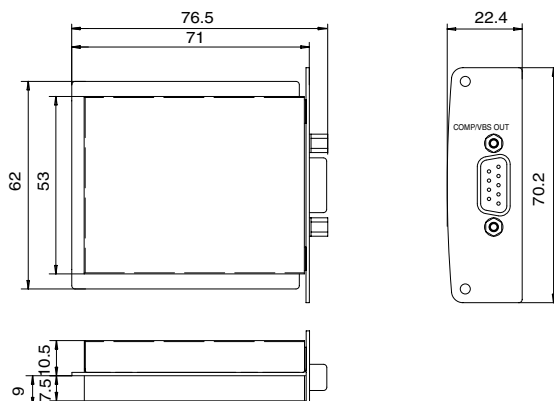
“DISPLAY” Menu Screen

“DISPLAY” menu will be appeared, but not for this unit.

Specifications

Analog Output	: Composite video signal Component signal (Either Y/Cb/Cr, RGB or YC separate output signal could be selected)
Power supply	: Supplied by camera
Power consumption	: 9.6 W (Include KY-F560 camera)
Operating temperature range	: -5 °C to 40 °C (Humidity below 80 %)
Dimensions	: (W) 22.4 mm x (H) 70.2 mm x (D) 76.5 mm (Exclude protruded part)
Weight	: 60 g
Accessories and attachments	: Instruction Manual Screws (Inch type) x 2

■ Dimensions (unit : mm)



Specification and appearance of this unit are subject to change for further improvement without prior notice.

JVC®

JVC® is a registered trademark owned by Victor Company of Japan, Limited.

JVC® is a registered trademark in Japan, the U.S.A., the U.K. and many other countries.

© 2005 Victor Company of Japan, Limited

Printed in Japan
LWT0272-001A